EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10580324"	US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:27
\$2	2	"6106245".PN	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:30
SS	2	"6032923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:41
S4	2	"5367878".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:42
S 5	10	("5367878" "5705018" "6007309" "6032923" "6106245").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 17:10
S6	69	("3381623" "3803424" "4115036" "4453169" "449850" "4938742" "5078581" "5096388" "5176258" "5182288" "5192197" "5493909" "5725363" "5759014" "5759015", PN. OR ("6106245") URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25

S7	80	("2403692" "2975907" "3304446" "3381623" "3414010" "3641373" "3769531" "380424" "3947644" "4115036" "4416936" "415036" "4418866" "4453169" "4478076" "4478077" "4498850" "4576050" "4581624" "455164" "4565456" "4722360" "4756508" "4821939"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 17:24
		148982001 "4911616" 14938742" "4939405" 5065978" "5069419" 50785811" "5082422" 5085562" "5096388" 5129794" 5140074" 51711132" "5176388" 51802881" "5180623" 5206557" "5219278" 5224843" "5244527" 5224843" "5244527" 5244537" "52425880" 5323999" "53225880" 5441597" "5342258" 54528605" "5541465" 5552654" "5574011" 56420151" "5683159" 57590153" "5892170" 58363750" "8863708" 5991939" "5911872" 591939" "6106245" 61798681 6162941"				
S8	521	"6215221" "6240944" "6288472").PN. OR ("6968862").URPN. (micropump or micro-pump)	US-PGPUB;	OR	ON	2008/10/25
<i>S</i> O	521	and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	USPAT; USOCR	5	Si v	17:38
S9	35	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 17:39

S10	81	("20020067992" "2403692"	US-PGPUB;	OR	OFF	2008/10/25
310	51	201000793" 2510002 [29753077 "3304446" "3381623" "3641373" "3769531" "3803424" "3947644" "43115036" "4140336" "4197797" "4453169" "4478076" "4478077 "4498550" "4453169" "4478076" "4501144" "4539575" "4576050" "4651564" "4501474" "4539575" "4576050" "4651564" "4504574" "4755508" "4821999" "4911616" "4338742" "4339405" "5065958" "50693419" "50758581" "5089419" "50758581" "5089419" "50758581" "5089419" "57085861" "5180623" "5181298" "5180623" "5191297" "5246587" "52419278" "5242463" "5242658" "5252658" "5542821" "5524843" "5542851" "5525654" "5574101" "6542615" "55836750" "578363" "5789014" "5785615" "5836750" "5863708" "5901939" "5911872" "6186607" "6215221" "6186607" "6215221"	USPAT; USOCR	On	5 1	18:23
		"6450773" "6508528" "6520753" "6579068").PN. OR ("6767190").URPN.				
S11	44	(micropump or micro-pump or mesopump or meso-pump or microvalve or micro-valve) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-POPUB; USPAT; USOCR	OR	ON	2008/10/25 18:31
S12	810	STmicroelectronics.asn. and pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:50
S13	728	STmicroelectronics.asn. and pump and voltage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51

S14 164		ctronics.asn. and voltage and	US-PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51
S15 172	25 417/53.cds	i.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:51
S16 17	10 257/706.cc	ls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:52
S17 378	8 257/e21.49	5.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:52
S18 584	4 257/e23.08	.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:53
S19 84	"2975307 "3381622" "3769531" "39476445 "4140936" "44453169" "4576050" "4564546" "48219999" "5065878" "5076878" "5078578" "5078578" "5245279" "5244527" "524258" "5441597" "5249909" "5542821" "55714078" "5544527" "55901938" "57590148" "5683750" "501938" "6106245" "6184607" "6450773"	"3802424" "4115036" "41197737" "44197737" "44987076" "4498850" "4598575" "4651564" "4756508" "4911616" "4939405" "5082342" "5082342" "5082388" "514058" "5140587" "5224843" "5224843" "5224843" "5224843" "552252878" "5522657" "5522657" "5522657" "5522657" "5526567" "552657"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 18:11

S20	19		330" "3264861"	US-PGPUB;	OR	OFF	2009/05/20
			" "4377851"	USPAT; USOCR			18:12
			"5693886"				
		,	"6106245"				
		"6179586"					
		"6374191"					
			"6644117"			İ	,
			"6729856" "6767100") DN				
		OR ("72160	"6767190").PN.				
321	83		"2975307"	US-PGPUB;	OR	OFF	2009/05/20
			"3381623"	USPAT; USOCR			18:27
		"3641373" "3803424"					
		"4115036"					
		"4197737"					
		"4478076"					
		"4498850"					
		"4539575"				l	
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		"4756508"	"4786472"			1	
		"4821999"	"4911616"				
		"4938742"	"4939405"				
			"5069419"				
		"5078581"					
		"5085562"					
		"5129794"					
		"5171132"					
		"5180288" "5192197"				į.	
		"5212993"					
		"5224843"				l	
		"5322258"					
		"5441597"					
		"5499909"					
		"5552654"					***
		"5642015"	"5683159"				
		"5725363"	"5759014"				
		"5759015"					***
		"5836750"					
			"5911872"				
			"6106245"				
		"6179586"					
			"6215221"				
		"6382228")					
		("6758107").UHMN.		}	1	1

\$22	84	("20020067992" "2403692" "2403692" "340446" "3381623" "3641373" "3769531" "3803424" "3947644" "4115036" "44180396" "4415036" "4478077" "4453169" "4478077" "4485169" "4478077" "4485169" "4501144" "4539575" "4576050" "4651564" "4564546" "4756508" "481999" "4911616" "4938742" "4939405" "5065378" "5065378" "5065378" "5065378" "5065378" "5065378" "5065378" "5065378" "5065378" "5065378" "5065378" "5065378" "508562" "5096338" "5129794" "5148074" "5171132" "5148074" "5171132" "5148074" "5171132" "5148074" "5180288" "5180288" "5180288" "5180288" "5180288" "5180288" "5180238" "5244527" "5244537" "524537" "544537" "544537" "544537" "5542015" "5552654" "5759014" "5759015" "556363" "5759014" "5759015" "5901393" "5911872" "6106245" "61172518" "61184607" "6215221" "6450773" "6509528" PN. OR ("6767190") JUPRN.	US POPUB; USPAT; USOOR	OR	OFF	2009/05/20 18:41
523	80	("2403692" "2975007" "3304466" "381623" "3414010" "3641373" "3769531" "3803424" "3947644" "4115036" "4410936" "419773" "44188860" "4501144" "4539575" "4576550" "4551624" "4576550" "4561624" "4722360" "4766506" "4722360" "4766508" "4821999" "4565562" "472360" "5065978" "5069419" "5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176358" "5180288" "5180523" "5180288" "5180623" "5206557" "5219278"	US-PGPUB; USPAT; USOOR	OR	OFF	2009/05/20

		"5224843" "5244527" "5244537" "5322258" "5322588" "5325880" "5441597" "5452878" "55426587" "5549909" "5541465" "5542651" "5542015" "55683159" "5725363" "55683159" "55836750" "5863708" "5901393" "5911872" "5554079" "6106245" "6179586" "6182941" "61884707" [6182941" "6288872") PN. OR ("69888672") JRPN.				
S24	554	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:23
S 25	344	S24 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:24
S 26	789	((micropump or micro-pump or pump) with substrate).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
\$27	527	S26 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
\$28	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:42
\$29	51	("3243181" "3405977" "3414331" "3422411" "3427335" "3550964" "3918706" "4493546" "4577854" "4618292" "487473" "5284179" "5497987" "5634636" "5897097") PN. OR ("6032823") URIPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21
S30	1	"5367878".pn.	US-PGPUB; USPAT; USOOR	OR	OFF	2009/05/21 12:49
S31	1	"5705018".pn.	US-PGPUB; USPAT; USOOR	OR	OFF	2009/05/21 12:51
S32	1	"6007309".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:51

333	80	("2403692"	"2975307"	US-PGPUB;	OR	OFF	2009/05/21
			"3381623"	USPAT; USOCR			12:53
			"3641373"				
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		"3947644"					
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		"4418886"					
		"4478076"				l l	
		"4498850"					
		"4539575"				1	
		"4581624"					
		"4654546"				1	
		"4756508"					
		"4898200"				İ	
		"4938742"					
		"5065978"				1	
		"5078581"					
		"5085562"					
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		"5323999"					
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		"5499909"				1	
		"5552654"					
		"5642015"					
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		"5759015"					
		"5836750"				į.	
		"5901939"					
		"5954079"					
		"6179586"					
		"6184607"				1	
			"6240944"				
		"6288472")					
		("6968862"					
S34	2	"6837476"	, 	US-PGPUB;	OR	ON	2009/05/21
	-	0007470 .	pii.	USPAT; USOCR;	151	ON	14:10
				FPRS; EPO;			17.10
				JPO:		1	
				DERWENT:		1	
				IBM_TDB	i		
	į	4		(.DIV_1DD	ŧ	i	3

S35	91	("2403692" "2975307" "3304446" "3381623"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 18:16
		"3414010" "3641373"	USPAT, USCUR			18.16
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		"5571401" "5642015"				
		"5683159" "5725363"				
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		OR ("6837476").URPN.				
S36	14	("5367878" "5705018"	US-PGPUB;	OR	OFF	2009/11/02
		"6007309" "6032923"	USPAT; USOCR;			18:40
		"6106245" "6767190"	FPRS; EPO;			
		"6837476").PN.	JPO;			
			DERWENT; IBM TDB			
337	177	STmicroelectronics.asn. and	US-PGPUB;	OR	ON	2009/11/02
		pump and voltage and	USPAT; USOCR;			22:08
		substrate	FPRS; EPO;			
			JPO;			
			DERWENT; IBM TDB			
338	75	S37 and @ad<"20021125"	US-PGPUB;	OR	ON	2009/11/02
	1.0		USPAT; USOCR			22:08
339	78170	(pump or valve) and	US-PGPUB;	OR	ON	2009/11/02
		membrane and	USPAT; USOCR			22:10
	1	@ad< "20021125"	ł	1	1	1

S40	93534	(pump or valve) and membrane and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:11
S41	7038	S40 and substrate and (cavity opening hollow) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:13
S42	378	S41 and (membrane and (conductive or metal) and (cavity opening)).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:18
S43	674	257/e21.495.cds.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:07
S44	4	S43 and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:07
S45	85	cabuz.in. and valve	US-POPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/02 23:54
S46	225	347/112.cds. and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:57
S47	471	137/613.cds. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:01
S48	253	("2405692" "2975307" "20020075756" "20020174706" "20020174706" "20030005774" "20030005774" "20030003884" "2003003884" "200300289809" "200302269807" "20040056651" "3304446" "3381623" "3414010" "3641373" "3769531" "3641373" "3769531" "3641373" "3769531" "3641373" "3769531" "3641373" "3769531" "3641373" "4115036" "414036" "4197737" "4360955" "441886" "4453169" "4478076" "4478077" "4498850" "4455169" "459575" "4576050" "4591624" "4585209" "4591636" "4621999" "4619438" "4651564" "4654546" "4722360" "4756508" "4898742" "4393405" "5068578" "508242" "5085562" "5096388" "5127974" "5176356" "5171325" "5176356"	US-PT-US-COP-US-PT-US-OT-US-PT-US-COP-US-PT-US-COP-US-PT-US-US-US-PT-US-US-US-US-US-US-US-US-US-US-US-US-US-	OR	OFF	2009/11/03

	1	"5180288" "5180623"	1	ŀ	i	1
		"5186054" "5192197"				
		"5206557" "5219278"				
		"5224843" "5244527"			İ	
		"5244537" "5322258"				
		"5323999" "5325880"				
		"5336062" "5368571"				
		"5441597" "5452878"				
		"5499909" "5526172"				
		"5529465" "5536963"				
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		"6520753" "6590267"				****
S49	22988	"6640642" "6651506").PN.	US-PGPUB:	OR	ON	2009/11/03
040	22300	valve) and (cavity vacuum	USPAT: USOCR	Ort	014	00:30
		opening hollow) and conduct	557.11, 555 0 11			20.00
		\$4 and substrate and				
		(dielectric insulat\$3) and				
		voltage				******
350	18510	(micropump or micro-pump	US-PGPUB;	OR	ON	2009/11/03
		valve) and (cavity opening	USPAT; USOCR			00:30
		hollow) and conduct\$4 and				
		substrate and (dielectric				
		insulat\$3) and voltage				
S51	5448	S50 and (membrane	US-PGPUB;	OR	ON	2009/11/03
		diaphraghm)	USPAT; USOCR			00:31
352	5238	S51 and (fluid liquid)	US-PGPUB;	OR	ON	2009/11/03
	5200	and (maid inquity)	USPAT; USOCR		0	00:32
353	5115	S52 and (conductive metal)	US-PGPUB:	OR	ON	2009/11/03
	3113	COL and (conductive filetal)	USPAT; USOCR	011	ON	00:33
354	297	S53 and (membrane and	US-PGPUB:	OR	ON	2009/11/03
204	231	(conductive or metal) and	USPAT; USOCR	J. 1	014	00:35
		(cavity opening hollow)).clm.	001 A1, 0000A			00.55
	0.405		LIO POPUID	000	l	0000(44/05
S55	2495	S53 and @ad< "20031125"	US-PGPUB;	OR	ON	2009/11/03
***********		<u></u>	USPAT; USOCR		<u> </u>	00:35
356	231	S54 and @ad< "20031125"	US-PGPUB;	OR	ON	2009/11/03
	5	1	USPAT; USOCR	}	3	00:36

S57	53	S53 and (membrane with (conductive or metal) with (cavity opening hollow))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:36
S58	28	S57 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:37
S59	6395	(micropump or micro-pump valve) and (cavity opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and (membrane diaphragm)	US-POPUB; USPAT; USOCR	OR	ON	2009/11/03 10:05
S60	6089	S59 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:06
S61	1553	S60 and (first with second with (opening cavity hollow))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:07
S62	771	S61 and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:07
S63	79	("3381623" "3803424" "4115036" "4453169" "4498850" "4938742" "5078581" "5096388" "5176358" "5180288" "5192197" "5499909" "5725363" "5759014" "5758015"), PN. OR ("6106245"), URPN.	US-POPUB; USPAT; USOCR	OR	OFF	2009/11/03
\$64	124	("20020078756" "20020078756" "20020174706" "2003005774" "20030019299" "20030019299" "20030019299" "200300189809" "200300234376" "20040055651" "20040055651" "20040055651" "20040055651" "2304446" "3381623" "34114010" "3641373" "3641373" "3769531" "3803424" "3943939" "4115036" "4140936" "4197737" "4369055 "4419737" "4459169" "4459169" "4459169" "4459169" "4595565" "4565680" "4585209" "4619438" "4651564" "4654566" "4829826" "4829826" "4898420" "48984205" "4898620" "4898645"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03

		"5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176388" "5180548" "5192197" "5206557" "5219278" "5224843" "5242527" "5244537" "5242528" "5244537" "5242528" "5244537" "5242587" "5244537" "5242587" "5244537" "5242587" "5244537" "5242587" "524637" "5245878" "5369631" "5526172" "5524665" "5536654" "5541465 "5526645" "5541465 "5526645" "5541465 "5526645" "5541465 "5526645" "5541465 "55266215" "552463 "5789141" "578915 "5696662" "579257" "5892675 "58936750" "5893467 "5893750" "5893467 "6863760" "5891393 "5911872" "5954079 "5893750" "6106245 "619887" "6116631 "6151967" "615761" "6179667" "6152211" "6139687" "61626140 "6151967" "6152211" "624944" "6288472 "6378622" "6418793" "6445053" "6496348" "6590267" "650620753" "6590267" "6650753" "6590267" "6650753" "6590267" "66650753" "6590267" "66650753" "6590267" "66650753" "6590267" "66650753" "6590267" "66650753" "6590267" "6660642" "665566") "671722263" UPPN. "6717263" "6890267" "68039" UPPN. "67172639" UPPN.	₹N.			
\$65	32	("3993939" "4225755" "4360955" "4584885" "4829826" "4996627" "5019783" "5048165" "5801313").PN. OR ("6151967").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 10:51
\$66	124	["20020078756" "20020174706" "20020174706" "20030015774" "20030019299" "200300189809" "20030285090" "2003024376" "20040055651" "20040055651" "20040055651" "2040405321" "2040405321" "3361623" "3414010" "3861373" "3769531" "38614373" "3769531" "3803424" "3947644" "3993939" "4115036"	US-PGPUB; USPAT; USOOR	OR	OFF	2009/11/03

S68 8	"5145336"	" "4634430" "5669764" "6098991"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 11:29
67 42	"4923000" OR ("5078	" "4911616" "4938742").PN. 581").URPN.	US-PGPUB; USPAT; USOOR	OR	OFF	2009/11/03 11:04
967 42	*4576050* *458506* *458506* *4621999* *469876* *4521999* *469876* *5065978* *507657* *5085562* *5129794* *5171132* *5180288* *5180288* *5244537* *5244537* *5244537* *524537* *5249990* *552465* *5541465* *5571401* *5683159* *552866* *5551466* *5551466* *5571601* *5683159* *5725563* *5729015* *582170* *5839677* *5901939* *5640782* *61626140* *6167761* *618263* *6126140* *6167761* *6215221* *6288472* *6416893* *6520753* *6640642* (CR (*72224)* (C4885500*	"4581624" "4619438" "4619438" "4619438" "4619438" "4756506" "4829826" "4911616" "4911616" "5082242" "5096388" "5148074" "5176358" "5180622" "5192197" "5218278" "5224587" "522258" "53268671" "53686671" "53686671" "5586662" "5589638" "5586671" "5866662" "579297" "5810328" "5810328" "5810328" "5810328" "6810889" "6122973" "6119889" "6122973" "6119888" "6122973" "6119888" "61260944" "6445053" "6850626" "6650605" "6650626" "6650626" "6650626" "6650626" "6650626" "6650626" "6650626" "6650626" "6650626" "6650626" "6650657"		OR	OFF	

S69	6395	(micropump or micro-pump valve mesopump meso \$1pump) and (cavity opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03
S70	264	S69 and ((inlet outlet) near4 (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:35
S71	75	S70 and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:35
S72	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:42
S 7 3	13	"0779436"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:44
S74	1	"5367878".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:44
S 75	38	("3524031" "4821997" "4824073" "4943032" "4966415" "4966646" "5164558" "5177579 "5186001").PN. OR ("5367878").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 12:46
S76	45	("3168905" "3256686" "3739573" "3802462" "4170978" "4543788" "5197192" "5210817" "5266902" "6322258" "5325880" "5344117" "5367973" J.N. OR ("5671905"). URPN.	US-PGPUB; USPAT; USOOR	OR	OFF	2009/11/03 12:52
S77	10	("0668682" "2548708" "3905195" "4149383").PN. OR ("4543788").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 12:56
S78	91	("2403692" "2975307" "3304406" "3381622" "33414010" "3641373" "3769531" "3641373" "3769531" "3643737" "4418986" "4197737" "4418986" "4419737" "4478076" "4478076" "4478076" "4478076" "4478076" "4576050" "4581624" "4651564" "4581624" "4651564" "4584646" "4722360" "4756508" "4821999" "4898200" "4911616" "4938742" "4939405" "5065978" "5069419" "5075851" "5082424" "5085581" "508588" "5129794" "5148074" "517132" "5176358"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 14:38

	"5192197" "5206557" "5219278" "5224843" "5244527" "5224537" "5322588" "5323999" "5325880" "5323999" "5452878" "5499009" "5541465" "5552654" "5574011" "54725633" "578014" "5759015" "5863708" "5901939" "582170" "5836750" "5863708" "5901939" "5911872" "5954079" "6106245" "6179566" "6182941" "6184607" "6215221" "6288472") FN. OR ("6837476") UPPN.				
S79 14C	("20020078756") "20020174706"] "20020192113"] "20030019299"] "2003003884"] "20030142291"] "20030142291"] "20030142291"] "20030142291"] "20030254376"] "20040035211"] "20040035211"] "2004006360"] "2403692"] "2975307"] "3304446"] "3361623"] "3314010"] "3641373"] "3769531"] "3803424"] "3347644"] "3893939"] "4115036"] "4140936"] "4197737"] "4480855"] "448886"] "4453169"] "4478076"] "4478077"] "4498850"] "4501144"] "4539575"] "4576050"] "4591624"] "4581624"] "478076"] "45918742"] "498980"] "45918742"] "5186684"] "5085687"] "5096919"] "5078881"] "5089419"] "5078881"] "5089419"] "5078881"] "5089419"] "51810288"] "5180628"] "51810288"] "5180628"] "5180288"] "5180628"] "5224843"] "5244527"] "5206657"] "5219278"] "5224843"] "522455"] "5225581"] "522255"] "5323999"] "53255860"] "5323999"] "53255860"] "5323999"] "53255860"]	US-PGPUB; USPAT; USOOR	OR	OFF	2009/11/03

		"5417235" "5441597" "5452878" "5499909"				
		"5526172" "5529465" "5536963" "5541465"				
		"5552654" "5571401"				
		"5642015" "5683159"				
		"5696662" "5725363"				
		"5759014" "5759015"				
		"5792957" "5808205"				
		"5822170" "5836750"				
		"5839467" "5863708" "5001030" "5011870"				
		"5901939" "5911872" "5954079" "5971355"				
		"6106245" "6109889"				
		"6116863" "6122973"				
		"6151967" "6167761"				
		"6179586" "6182941"				
		"6184607" "6184608"				
		"6211580" "6215221"				
		"6240944" "6255758"				
		"6288472" "6358021"				
		"6373682" "6382228"				
		"6382588" "6418793"				
		"6432721" "6445053"				
		"6496348" "6508528").PN.				
		OR ("6520753" "6549275" "6568286" "6590267"				
		"6597438" "6640642"				
		"6644117" "6649416"				
		"6651506" "6729856"				
		"6750589" "6758107"				
		"6767190" "6837476").PN.				
		OR ("7445017").URPN.				
S80	32	("3993939" "4225755"	US-PGPUB;	OR	OFF	2009/11/03
		"4360955" "4584885"	USPAT; USOCR			14:49
		"4829826" "4996627"				
		"5019783" "5048165"				
		"5801313").PN. OR ("6151967").URPN.				
381	6395		US-PGPUB:	OR	ON	2009/11/03
ω i	0393	(micropump or micro-pump valve mesopump meso	USPAT; USOOR	On.	ON	14:57
		\$1pump) and (cavity opening	501 A1, 0000A			14.57
		hollow) and conduct\$4 and				
		substrate and (dielectric				
		insulat\$3) and voltage and				
		(membrane diaphragm)				
382	871	S81 and ((opening) near4	US-PGPUB;	OR	ON	2009/11/03
		(smaller bigger larger))	USPAT; USOCR			14:57
S83	15	S81 and (((opening) near4	US-PGPUB;	OR	ON	2009/11/03
		(smaller bigger larger)) with	USPAT; USOCR			15:00
		first with second)				
384	0	S81 and (((vent) near4	US-PGPUB;	OR	ON	2009/11/03
		(smaller bigger larger)) with	USPAT; USOCR			15:03
	1	first with second)	1	\$	1	1

S85	0	S81 and (((duct) near4 (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:03
S86	1025	S81 and ((opening) with (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:35
S87	44	S81 and (((opening) with (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:36
S88	8	S81 and (((opening) with (smaller bigger larger)) with first with second).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:41
S89	573	S81 and ((opening duct) same (smaller bigger larger) same (fluid liquid) same flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:49
S90	26	S81 and ((opening duct) with (smaller bigger larger) with (fluid liquid) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:50
S91	19	S81 and ((inlet outlet) with (smaller bigger larger) with (fluid liquid) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:54
S92	9	S81 and ((inlet outlet) with (different) with (size) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:57
S93	2	S81 and ((opening duct) with (different) with (size) with (flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:00
S94	83	S81 and ((opening duct) with (different) with (size))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:01
S95	0	251/129/01.cds. and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:05
S96	429	251/129.01.cds. and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:06
S97	177	STmicroelectronics.asm. and pump and voltage and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/03 20:28
S98	108	S97 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 20:28
S 9 9	58	((GUILLAUME) near2 (BOUCHE)).INV.	US-PGPUB; USPAT	OR	OFF	2010/06/16 17:13
S100	475	stmicroelectronics.asn. and pump and transistor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:23

S101	0	stmicroelectronics.asn. and (pump same transistor same cavity same membrane)	US-PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:25
S102	3	stmicroelectronics.asn. and (pump and transistor and cavity and membrane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:26
S103	611	stmicroelectronics.asn. and (pump and transistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/16
S104	8	stmicroelectronics.asn. and (pump and transistor and cavity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/16
S105	5	stmicroelectronics.asn. and (pump and transistor and membrane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/16 17:29
S106	3	(pump same transistor same cavity same membrane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:30
S107	8374	(pump with transistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:36
S108	638	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:37
S109	128	S108 and transistor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:37

S110	25099	(pump micropump or micro- pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:37
S111	5426	S110 and transistor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:38
S112	19802	(micropump or micro-pump valve) and (cavity opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:40
S113	5889	S112 and (membrane diaphraghm)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:40
S114	5670	S113 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:40
S115	5543	S114 and (conductive metal)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:40
S116	737	S115 and transistor and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:40
S117	3	stmicroelectronics.asn. and ((pump micropump micro- pump "micro pump") and transistor and cavity and membrane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/16 17:43
S118	97	S109 and @ad<"20070518"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 17:45
S119	55	257/706.cds. and pump and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 18:28
S120	150	(pump and transistor and substrate).ab. and @ad<"20070518"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 18:58
S121	27	S120 not (charge adj pump)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/16 18:58
S122	7	("5367878" "5705018" "6007309" "6032923" "6106245" "6767190" "6837476").PN.	US-PGPUB; USPAT; USOOR	OR	ON	2010/06/17 06:43
S123	121	("4794370" "5380396" "5585011").PN. OR ("5705018").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/17 06:47
S124	638	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 06:52

S125	347	S124 and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 06:52
S126	87	S125 and transistor	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 07:06
S127	1	"6629425".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 07:20
S128	26	("4450472" "4745760") "4800422" "4938742" "4950181" "5179043" "5218615" "5241450" "5278103" "5461003" "5619177" "5668398" "5876187" "5901037" "5936295" "6228774", FN. OR ("6629425"). UPPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/17
S129	2	09/912623	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/17 13:38
S130	9	09/912631	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/17 13:38
S131	55	(pump\$3 with semiconductor near substrate with transistor) and @ad<"20021125"	US-PGPUB; USPAT; USOOR	OR	ON	2010/06/17 17:13
S132	61	(pump\$3 with semiconductor near substrate with transistor) and @ad<"20031125"	US-PGPUB; USPAT; USOOR	OR	ON	2010/06/17 17:14
S133	0	((pump\$3 with semiconductor near substrate with transistor) same cool\$3) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 17:15
S134	0	((pump\$3 with semiconductor near substrate with transistor) same (cool\$3 heat adj dissipat\$4)) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 17:16
S135	2	((pump\$3 with substrate with transistor) same (cool\$3 heat adj dissipat\$4)) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 17:16
S136	116	("5218515").PN. OR ("5901037").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/17 17:19

S137	1	((pump\$3 same (semiconductor adj substrate) same transistor) same (cool \$3 (heat adj dissipat\$4) (heat adj extract\$4))) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 17:24
S138	25	("20020039280" "4450472" "4450472" "4450472" "4900422" "4936742" "4990181" "5001548" "5016138" "5179043" "5218515" "5241450" "5278103" "5461003" "568398" "5763951" "5901556" "5916247" "5901556" "5916247" "590266") P.N. OR ("7107777").URFN.	US-POPUB; USPAT; USOOR	OR	OFF	2010/06/17 17:38
S139	116	("5218515").PN. OR ("5901037").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/17 17:46
S140	465	(pump\$3 with semiconductor near substrate) and @ad<"20021125"	US-PGPUB; USPAT; USOOR	OR	ON	2010/06/17 17:52
S141	317	S140 not (charge adj pump)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 17:52
S142	106	S141 and (cool\$3 (heat adj dissipat\$4) (heat adj extract \$4)) and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 17:54
S143	7	("5367878" "5705018" "6007309" "6032923" "6106245" "6767190" "6837476").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/17 18:20
S144	17	(micropump or micro-pump "micro pump") with semiconductor adj substrate	US-PGPUB; USPAT	OR	ON	2010/06/19 14:02
S145	5	("5403783" "5532906" "6528878" "6607928").PN. OR ("7170164").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/19 14:26
S146	3	("6528878" "6607928" "7170164").PN. OR ("7528483").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/19 14:28
S147	1921	257/706.cdls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 14:53
S148	1208	S147 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 14:53
S149	173	S148 and ((semiconductor adj substrate) or (substrate near silicon))	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 14:54

S150	351	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and ((semiconductor or silicon) adj substrate) and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 15:10
S151	340	S150 and (@ad<"20070518" or @rlad<"20070518")	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 15:34
S152	183	S151 and ((fluid or liquid) same (cool\$3 heat))	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 15:35
S153	23	(micropump or micro-pump) same ((semiconductor or silicon) adj substrate) same ((fluid or liquid) same (cool\$3 heat))	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 15:38
S154	7	("5095349" "5236547" "5362213" "5989974" "6069392" "6287885" "6386507").PN. OR ("7701022").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/19 15:47
S155	7	(micropump or micro-pump) same ((semiconductor or silicon) adj substrate) same ((fluid or liquid) same (inlet and outlet))	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 16:00
S156	90	("4581624" "4770740" "4966646").PN. OR ("5244537").URPN.	US-PGPUB; USPAT; USOOR	OR	OFF	2010/06/19 16:08
S157	34	("20020131230" "20030231867" "20040023236" "20040075073" "200401047673" "20040113980" "5244537" "5380396" "522465" "558466" "5591393" "600676" "6089534" "6131879" "6142444" "6188995" "6142444" "6188995" "642962" "6329588 "6406605" "6453928 "6561224" "6579068" "6593058" "7001013" "6803242" "680071" "6803368" "7001013" "7159618" "7195393").PN.	US-PGPUB; USPAT; USOOR	OR	OFF	2010/06/19 16:18
S158	81	(valve) same ((semiconductor or silicon) adj substrate) same ((fluid or liquid) same (inlet and outlet))	US-PGPUB; USPAT; USOOR	OR	ON	2010/06/19 16:26

S159	59	S158 and (@ad<"20070518" or @rlad<"20070518")	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 16:48
S160	1	S159 and transistor	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 16:49
S161	70	("4585209" "4628576" "4647013").PN. OR ("4826131").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/19 16:51
S162	77	valve same ((semiconductor or silicon) adj substrate) same (fluid or liquid) same transistor	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 17:23
S163	57	S162 and (@ad<"20070518" or @rlad<"20070518")	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/19 17:23
S164	7	("5367878" "5705018" "6007309" "6032923" "6106245" "6767190" "6837476").PN.	US-PGPUB; USPAT; USOOR	OR	ON	2010/06/19 17:29
S165	57	("3243181" "3405977" "3414331" "3422411" "3437335" "3550964" "3918706" "4493548" "4577854" "4618292" "4874723" "5284179" "5497987" "5624636" "5897097").PN. OR ("6032823").URFN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/19
S166	58	((GUILLAUME) near2 (BOUCHE)).INV.	US-PGPUB; USPAT	OR	OFF	2010/06/19 17:38
S167	4	("5776381" "6392233" "6499217" "7082024").PN. OR ("7565725").URPN.	US-PGPUB; USPAT; USOOR	OR	OFF	2010/06/19 17:42
S168	10	("3993939" "4369483" "4944187" "5559665" "5884378" "6046659" "6738484").PN. OR ("7082024").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/19 17:42
S169	116	("5218515").PN. OR ("5901037").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/19 17:47
S170	7	(diaphragm with (semiconductor adj substrate) with transistor) and @ad<"20031125"	US-PGPUB; USPAT; USOOR	OR	ON	2010/06/22 12:59
S171	0	((semiconductor adj substrate) with transistor with duct) and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/22 13:38
S172	8	((semiconductor adj substrate) same pump same duct) and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/22 13:38
S173	6	((semiconductor adj substrate) near5 duct) and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/22 13:42

S174	0	((semiconductor adj substrate) same duct same micropump) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/22 13:54
S175	17	((semiconductor adj substrate) with duct) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/22 13:55
S176	5	10/661299	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/23 13:53
S177	1454	438/672.ccls. and (@ad<"20070518" or @rlad<"20070518")	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/23 13:56
S178	696	S177 and transistor	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/23 13:56
S179	57	S177 and transistor and (inlet outlet conduit tube canal pipe)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/23 13:57
S180	180	257/712.ccls. and transistor and (inlet outlet conduit tube canal pipe)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/23 15:43
S181	5	("5403783" "5532906" "6528878" "6607928").PN. OR ("7170164").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 16:39
S182	67	"4450472" "4758926" "4894709" "5051814" "5218515" "5293070" "5453641").PN. OR ("5801442").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 17:11
S183	7	("5218515" "5664864" "5801442" "6678168").PN. OR ("6780678").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 17:17
S184	67	("4450472" "4758926" "4894709" "5051814" "5218515" "5293070" "5453641").PN. OR ("5801442").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 18:04
S185	2	09/895136	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 18:18
S186	14	("5099311" "5801442" "5989445").PN. OR ("6521516").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 18:19
S187	14	("5099311" "5801442" "5989445").PN. OR ("6521516").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 18:22

S188	108	"4567505" "4450472" "4567505" "4573067" "4758926" "4893590" "4894709").PN. OR ("5099311").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 18:32
S189	14	("20010040022" "20040104468" "4580149" "4872028" "4894709" "4921041" "5099311" "5219020" "5400061" "6148635" "6200536" "6564861" "6672373").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/23 18:33
S190	115	(substrate with microchannel with cool\$3) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/24 12:04
S191	31	("3579142" "3631362" "4029400" "4657356" "469400" "4657356" "46944580" "4649036" "4944580" "5554086" "55441803" "5554086" "5563899" "5579333" "570751" "5661738" "55939372" "5703993" "5796761" "5802015" "5872803" "5872804" "5872803" "5872804" "5872806" "5872804" "5875206" "5903583" "59396384" ND CR	US-PGPUB; USPAT; USOCR	OR .	OFF	2010/06/24
S192	116	("5218515").PN. OR ("5901037").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/24 14:33
S193	116	("5218515").PN. OR ("5901037").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/24 16:20
S194	269	(valve same ((semiconductor or silicon) adj substrate) same ((fluid or liquid) or cool \$3)) and transistor	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/24 16:32
S195	149	S194 and @ad< "20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/24 16:32
S196	191	(micropump or micro-pump) and (cavity vacuum) and transistor and ((semiconductor or silicon) adj substrate)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/24 17:39
S197	99	S196 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/24 17:39
S198	90	(micropump or micro-pump) and (cool\$3) and (fluid or liquid) and transistor and ((semiconductor or silicon) adj substrate) and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/24 17:42

S199	21	("2039999" "4392362"	US-PGPUB;	OR	OFF	2010/06/24
		"4951740" "5099311"	USPAT; USOCR			18:34
		"5176358" "5412535"				
		"5435152" "5441597"				
		"5457956" "5542821"				
		"5943877" "5966957"				
		"6033191" "6085831"				
		"6106245" "6148635"				
		"6164081" "6215221"				
		"6741469").PN. OR				
		("6883337").URPN.			i	
S200	39	("5271724" "5542821"	US-PGPUB;	OR	OFF	2010/06/24
		"5836750").PN. OR	USPAT; USOCR			18:37
		("6033191").URPN.				
S201	6	("20020170875" "4532700"	US-PGPUB;	OR	OFF	2010/06/24
		"5405786" "5834333").PN				18:40
		OR ("6803637").URPN.				

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